

Title (en)

NAVIGATION USING PLANNED ROBOT TRAVEL PATHS

Title (de)

NAVIGATION UNTER VERWENDUNG VON GEPLANTEN ROBOTERFAHRWEGEN

Title (fr)

NAVIGATION EN UTILISANT DES TRAJETS DE DÉPLACEMENT DE ROBOT PLANIFIÉS

Publication

EP 3436880 B1 20200304 (EN)

Application

EP 17722181 A 20170401

Priority

- US 201615088474 A 20160401
- US 2017025650 W 20170401

Abstract (en)

[origin: US2017285648A1] A method for generating a navigation map of an environment in which a plurality of robots will navigate, includes obtaining an image of the environment defined by a plurality of pixels, each having a cost value. The environment includes an image of a fixed object having a set of pixels corresponding to its location and having a first defined cost value. The method includes obtaining a planned path image for the robots, which include a first set of pixels corresponding to the location of each robot in the environment and a second set of pixels adjacent to the first set of pixels and extending along a planned path of travel toward a destination. The first set of pixels of each robot having the first defined cost value and the second set of pixels having a second defined cost value. The second defined cost value is less than the first defined cost value.

IPC 8 full level

G06K 9/00 (2006.01); **G05D 1/02** (2020.01); **G06Q 10/08** (2012.01)

CPC (source: EP KR US)

B25J 5/007 (2013.01 - KR US); **B25J 11/008** (2013.01 - KR US); **G05D 1/0236** (2024.01 - EP US); **G05D 1/0246** (2024.01 - US); **G05D 1/0248** (2024.01 - EP US); **G05D 1/0274** (2024.01 - EP US); **G06Q 10/087** (2013.01 - EP KR US); **G06V 20/10** (2022.01 - US); **Y10S 901/01** (2013.01 - EP US)

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US 2017285648 A1 20171005; **US 9864377 B2 20180109**; CA 3019572 A1 20171005; CA 3019572 C 20200526; CN 109196433 A 20190111; CN 109196433 B 20210924; EP 3436880 A1 20190206; EP 3436880 B1 20200304; ES 2790423 T3 20201027; JP 2019513994 A 20190530; JP 6949868 B2 20211013; KR 102383800 B1 20220405; KR 20180132780 A 20181212; WO 2017173424 A1 20171005

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